

Human Rap Guanine Nucleotide Exchange Factor 4 (RAPGEF4) ELISA Kit | RAPGEF4 elisa kit

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CATALOG #
AAA331162

REACTIVITY
Human

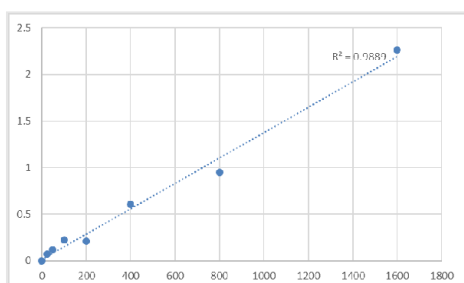
PRODUCT SYNONYMS

Rap Guanine Nucleotide Exchange Factor 4 (RAPGEF4); Human Rap Guanine Nucleotide Exchange Factor 4 (RAPGEF4) ELISA Kit; RAPGEF4; CAMP-GEFII; CGEF2; EPAC2; Nbla00496; RAP guanine-nucleotide-exchange factor (GEF) 4; cAMP-regulated guanine nucleotide exchange factor; exchange protein directly activated by cAMP 2; putative protei; RAPGEF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Rap guanine nucleotide exchange factor 4 (RAPGEF4) ELISA Kit has high sensitivity and excellent specificity for detection of Human RAPGEF4. No significant cross-reactivity or interference between Human RAPGEF4 and analogues was observed.
Sequence Length	1011
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Rap guanine nucleotide exchange factor 4 (RAPGEF4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RAPGEF4 elisa kit	Description: This Human Rap guanine nucleotide exchange factor 4 (RAPGEF4) ELISA Kit employs a two-site sandwich ELISA to quantitate RAPGEF4 in samples. An antibody specific for RAPGEF4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RAPGEF4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAPGEF4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RAPGEF4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Sequence analysis predicted that the 1,011-amino acid cAMP-GEFII protein contains an N-terminal cAMP-binding domain and a C-terminal GEF domain. Expression of cAMP-GEFI and cAMP-GEFII activated RAP1A after forskolin and 3-isobutyl-1-methylxanthine stimulation, independent of the protein kinase A pathway. cAMP-GEFI and cAMP-GEFII expression did not activate or only slightly activated other RAS superfamily members after stimulation. Northern blot analysis detected expression of a 4.4-kb cAMP-GEFII transcript that was most prominent in brain and adrenal gland. Within the brain, expression was strongest in cortex, occipital pole, frontal lobe, temporal lobe, amygdala, putamen, hippocampus, and cerebellum.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32171491
NCBI GeneID	11069
UniProt Accession #	Q8WZA2
NCBI Official Full Name	Rap guanine nucleotide exchange factor 4
NCBI Official Synonym Full Names	Rap guanine nucleotide exchange factor 4
NCBI Official Symbol	RAPGEF4
NCBI Official Synonym Symbols	EPAC; CGEF2; EPAC2; EPAC 2; Nbla00496; CAMP-GEFII
NCBI Protein Information	rap guanine nucleotide exchange factor 4
UniProt Protein Name	Rap guanine nucleotide exchange factor 4
UniProt Gene Name	RAPGEF4
UniProt Synonym Gene Names	CGEF2; EPAC2; EPAC 2; cAMP-GEFII
UniProt Entry Name	RPGF4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/rap-guanine-nucleotide-exchange-factor-4-rapgef4/331162>